

Claim 6 (currently amended): A method for detecting a biochemical ~~reagin~~reactant according to any one of Claims 1 through 4, wherein ~~in the detection/discrimination step~~ includes measurements are performedmeasuring, before and after the hybridization operation and/or before and after the label modification operation, ~~to assess at least one of electrical, magnetic and optical changes to the surface of the biochip, and~~ comparing ~~these results are compared~~.

Claim 7 (currently amended): A method for detecting a biochemical ~~reagin~~reactant according to any one of Claims 1 through 4, wherein ~~in the detection/discrimination step~~ includes measurements are performedmeasuring, before the hybridization operation, ~~to assess at least one of electrical, magnetic and optical changes to the surface of a biochip having a plurality of electrodes, and the relative amounts of probe the nucleic acids~~ probe on each electrode are calculated in advance and used as a ~~correction~~corrective reference for ~~the measurement~~measured values after each step.

Claim 8 (currently amended): A method for detecting a biochemical ~~reagin~~reactant according to any one of Claims 1 through 4, wherein ~~the a~~ a pre-modification with a label of the ~~probe~~ nucleic acid probe or the biochemical specimen is a multi-stage modification of two ~~or three or~~ more stages in which a second label is added targeting a ~~previous attached first label~~ previously attached.

Claim 9 (currently amended): A method for detecting a biochemical ~~reagin~~reactant according to any one of Claims 1 through 4, wherein ~~the method of modifying the probe nucleic acid~~ probe or the biochemical specimen with a label is a multi-stage modification in two ~~or three or~~ more stages in which a modification with a first label is followed by a modification with a second label targeting the first label.

Claim 10 (currently amended): A method for detecting a biochemical ~~reagin~~reactant according to any one of Claims 1 through 4, wherein the label is selected from among fine metal

particles (including Si), magnetic particles, ceramic fine particles, fluorescent labels, fluorescent dyes, dyes, chemical colorants and semiconductors.

Claim 11 (currently amended): A method for detecting a biochemical ~~reagin~~reactant according to any one of Claims 1 through 4, wherein ~~the method of detecting/discriminating~~ electrical changes on the surface of a biochip is ~~a method of detecting/discriminating~~ at least one of changes in current values, voltage values or resistance values on a biochip or electrode, ~~or~~ and changes in capacitance on the surface of a biochip.

Claim 12 (currently amended): A method for detecting a biochemical ~~reagin~~reactant according to any one of Claims 1 through 4, wherein ~~the method of detecting/discriminating~~ as electrical and magnetic changes on the surface of a biochip comprises the steps of:

detecting/discriminating at least one of changes in current values, voltage values or resistance values on a biochip or electrode, ~~or~~ and changes in capacitance on the surface of a biochip; and

magnetically detecting/discriminating a signal from a complex forming a double chain.

Claim 13 (currently amended): A method for detecting a biochemical ~~reagin~~reactant according to any one of Claims 1 through 4, wherein ~~the method of detecting/discriminating~~ as electrical and optical changes on the surface of a biochip comprises the steps of:

detecting/discriminating at least one of changes in current values, voltage values or resistance values on a biochip or electrode ~~or~~ and changes in capacitance on the surface of a biochip; and

optically detecting/discriminating a signal from a complex forming a double chain.

Claim 14 (currently amended): A method for detecting a biochemical ~~reagin~~reactant according to any one of Claims 1 through 4, wherein ~~the method of detecting/discriminating~~ as electrical, magnetic and optical changes on the surface of a biochip comprises the steps of:

electrode or the a site thereof of the loop structure capable of being modified with a label is located on ~~the a~~ substrate or substrate analog side.

Claim 18 (currently amended): A biochip constituted by comprising:
a substrate or a substrate analog; ~~thereof which has~~
at least one electrode formed on ~~the~~ a surface of the substrate or the substrate analog; and
~~having probe~~
a nucleic acids probe arrayed on ~~the surface of said electrode~~,
wherein the arrayed ~~probe~~ nucleic acids probe ~~have~~ has a loop structure in which a site modified
with a first label which allows further modification with a second label is located on ~~the~~ a substrate
or substrate analog side.

Claim 19 (currently amended): A biochip ~~constituted by~~comprising:
a substrate or a substrate analog; ~~thereof which has~~
at least one electrode formed on ~~the~~a surface of the substrate or the substrate analog; and
~~having probe~~
a nucleic acids probe arrayed on the surface of said electrode,
wherein the arrayed ~~probe-nucleic acids~~ probe ~~have~~has a loop structure in which a ~~previously~~
~~attached-label~~ previously attached is located on ~~the~~a substrate or substrate analog side.

Claim 20 (currently amended): A biochip according to Claim 18 or 19, wherein the label is selected from metal fine particles (including Si), magnetic particles, ceramic fine particles, fluorescent labels, fluorescent dyes, dyes, chemical colorants and semiconductors.

Claim 21 (currently amended): A biochip according to any one of Claims 15 through 19, wherein the substrate or substrate analog material is glass or semiconductor silicon.

Claim 22 (currently amended): A biochip according to any one of Claims 15 through 19, wherein the substrate or substrate analog ~~thereof~~ is capable of being embedded in a separately prepared electrical circuit board.